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STELLINGEN
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Membrane protein insertases of the YidC/Oxa1/Alb3 protein family

Yanping Geng

1. In the *B. subtilis* SpoIIIJ protein, the region comprising transmembrane segments 1, 2, and 3 with flanking loops functions as a platform for sporulation specificity. (*this thesis*)
2. The identification of SpoIIIJ-exclusive substrates will provide insights into the molecular basis of the specific role of SpoIIIJ in sporulation.
3. Cytosolic loop 2 and the C-terminus of the *E. coli* YidC are involved in ribosome binding and membrane insertion of F₀c and MscL. (*this thesis*)
4. There is no correlation between the YidC insertase activity and ribosome binding to YidC. (*this thesis*)
5. The hydrophilic groove formed by the core five transmembrane segments of YidC is the catalytic center of membrane insertion.
6. YidD is a new component of the SecYEG-YidC translocase and stimulates the biogenesis of the NADH dehydrogenase complex. (*this thesis*)
7. Done is better than perfect, but never stop moving forward.
8. Motivation comes from what you care about, what you are doing, who you are working with and what you will achieve.
9. Being confident and believing in your own self-worth is necessary to achieve your potential! (*Sheryl Sandberg*)
10. Life is a jungle gym, not a ladder !